

This Page Is Inserted by IFW Operations
and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

As rescanning documents *will not* correct images,
please do not report the images to the
Image Problem Mailbox.

Applicant : Deryck Jeremy William et al.
Serial No. : 10/090,527
Filed : March 4, 2002
Page : 2

Attorney/Agent No.: 12557-009001

A1
Contd

between the 12th and 13th carbons counting from the carbonyl carbon or (ii) either a single or double bond between the 12th and 13th carbons counting from the carbonyl carbon and at least one substituent at one or both of the 12th and 13th carbons counting from the carbonyl carbon, wherein the substituents are selected from the group consisting of: hydroxy, halogen, amino, cyano, cyclopropane, cyclopropene, epoxy, and a substituted or unsubstituted C1-C2 carbon chain, wherein the substituents on the C1-C2 carbon chain are selected from the group consisting of hydroxy, halogen, amino, cyano, and epoxy; and

(b) an aqueous surfactant.

2. (Amended) The nematocidal composition of claim 1 wherein R₁ = a C1-C5 substituted or unsubstituted carbon chain, wherein the substituents are selected from the group consisting of: hydroxy, halogen, amino, cyano, cyclopropane, cyclopropene, epoxy, and a singly or multiply substituted or unsubstituted C1-C2 carbon chain, wherein the substituents on the C1-C2 carbon chain are selected from the group consisting of hydroxy, halogen, amino, cyano, and epoxy.

3. (Amended) The nematocidal composition of claim 1 wherein R₂ = a C15-C19 substituted or unsubstituted carbon chain having a *cis* double bond between the 9th and 10th carbons counting from the carbonyl carbon and either: (i) a triple bond between the 12th and 13th carbons counting from the carbonyl carbon or (ii) either a single or double bond between the 12th and 13th carbons counting from the carbonyl carbon and at least one substituent at one or both of the 12th and 13th carbons counting from the carbonyl carbon, wherein the substituents are selected from the group consisting of hydroxy, halogen, amino, cyano, cyclopropane, cyclopropene, epoxy, and an unsubstituted C1-C2 carbon chain.

A2

9. (Amended) The composition of claim 1 wherein R₁ is a C1-C2 substituted or unsubstituted carbon chain.

10. (Amended) The composition of claim 1 wherein R₂ is substituted only at one or both of 12th and 13th carbons counting from the carbonyl carbon.

Applicant : Deryck Jeremy William et al.
Serial No. : 10/090,527
Filed : March 4, 2002
Page : 3

Attorneyocket No.: 12557-009001

A2
Contd

11. (Amended) The composition of claim 10 wherein R₂ is substituted only at the 12th carbon counting from the carbonyl carbon.

14. (Amended) The composition of claim 10 wherein within R₂ the substituents are selected from the group consisting of: hydroxy, epoxy, and a C1 alkyl.

A3

15. (Amended) A nematocidal composition comprising:
(a) a fatty acid methyl ester selected from the group consisting of: ricinoleic acid methyl ester, crepenynic acid methyl ester, and vernolic acid methyl ester; and
(b) an aqueous surfactant.

16. (Amended) The composition of claim 1 or claim 15 wherein the aqueous surfactant is selected from the group consisting of: ethyl lactate, polyoxyethylene 20 sorbitan monolaureate, polyoxyethylene 9 nonylphenyl ether,

17. (Amended) The composition of claim 15 wherein the composition further comprises:
(c) a permeation enhancer.

18. (Reiterated) The composition of claim 17 wherein the permeation enhancer is a cyclodextrin.

A4

19. (Amended) The composition of claim 15 where the composition further comprises:
(c) a co-solvent.

20. (Reiterated) The composition of claim 19 wherein the co-solvent is isopropanol.

A5

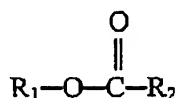
21. (Amended) The composition of claim 15 further comprising a nematocide selected from the group consisting of: avermectins, ivermectin, and milbemycin.

Applicant : Deryck Jeremy Williams et al.
Serial No. : 10/090,527
Filed : March 4, 2002
Page : 4

Attorney Socket No.: 12557-009001

22. (Amended) A method for control of unwanted nematodes, the method comprising administering to mammals, plants, seeds or soil a nematicidal composition comprising:

- (a) an effective amount of a compound having the formula



wherein:

R₁ = a C1-C5 substituted or unsubstituted carbon chain, wherein the substituents are selected from the group consisting of: hydroxy, halogen, amino, cyano, cyclopropane, cyclopropene, epoxy, and a substituted or unsubstituted C1-C2 carbon chain, wherein the substituents on the C1-C2 carbon chain are selected from the group consisting of hydroxy, halogen, amino, cyano, and epoxy; and

R₂ = a C15-C19 substituted or unsubstituted carbon chain having a *cis* double bond between the 9th and 10th carbons counting from the carbonyl carbon and either: (i) a triple bond between the 12th and 13th carbons counting from the carbonyl carbon or (ii) either a single or double bond between the 12th and 13th carbons counting from the carbonyl carbon and at least one substituent at one or both of the 12th and 13th carbons counting from the carbonyl carbon, wherein the substituents are selected from the group consisting of: hydroxy, halogen, amino, cyano, cyclopropane, cyclopropene, epoxy, and a substituted or unsubstituted C1-C2 carbon chain, wherein the substituents on the C1-C2 carbon chain are selected from the group consisting of hydroxy, halogen, amino, cyano, and epoxy; and

- (b) an aqueous surfactant.

23. (Amended) The method of claim 22 wherein R₁ = a C1-C5 substituted or unsubstituted carbon chain, wherein the substituents are selected from the group consisting of: hydroxy, halogen, amino, cyano, cyclopropane, cyclopropene, epoxy, and an unsubstituted C1-C2 carbon chain.

24. (Amended) The method of claim 22 wherein R₂ = a C15-C19 substituted or unsubstituted carbon chain having a *cis* double bond between the 9th and 10th carbons counting from the carbonyl carbon and either: (i) a triple bond between the 12th and 13th carbons counting

Applicant : Deryck Jeremy William et al.
Serial No. : 10/090,527
Filed : March 4, 2002
Page : 5

Attorney Docket No.: 12557-009001

AS
Amended
from the carbonyl carbon or (ii) either a single or double bond between the 12th and 13th carbons and at least one substituent at one or both of the 12th and 13th carbons counting from the carbonyl carbon, wherein the substituents are selected from the group consisting of: hydroxy, halogen, amino, cyano, cyclopropane, cyclopropene, epoxy, and an unsubstituted C1-C2 carbon chain.

29. (Amended) The method of claim 22 wherein R₁ is a C1-C2 substituted or unsubstituted carbon chain.

AG
30. (Amended) The method of claim 22 wherein R₂ is substituted only at one or both of 12th and 13th carbons.

31. (Amended) The method of claim 22 wherein R₂ is substituted only at the 12th carbon.

AA
34. (Amended) The method of claim 22 wherein within R₂ the substituents are selected from the group consisting of: hydroxy, epoxy, and a C1 alkyl.

35. (Reiterated) A method for control of unwanted nematodes, the method comprising administering to mammals, plants, seeds or soil a nematicidal composition comprising an effective amount of:

- (a) a fatty acid methyl ester selected from the group consisting of: ricinoleic acid methyl ester, crepenynic acid methyl ester, and vernolic acid methyl ester; and
- (b) an aqueous surfactant.

A8
36. (Amended) The method of claim 22 or claim 35 wherein the aqueous surfactant is selected from the group consisting of: ethyl lactate, polyoxyethylene sorbitan 20 monolaureate, polyoxyethylene 9 nonylphenyl ether.

37. (Reiterated) The method of claim 22 or claim 35 wherein the composition further comprises:

- (c) a permeation enhancer.

Applicant : Deryck Jeremy William et al.
Serial No. : 10/090,527
Filed : March 4, 2002
Page : 6

Attorney's Office No.: 12557-009001

38. (Reiterated) The method of claim 37 wherein the permeation enhancer is a cyclodextrin.

39. (Reiterated) The method of claim 22 or 35 wherein the composition comprises:
(c) a co-solvent.

40. (Reiterated) The method of claim 39 wherein the co-solvent is isopropanol.

41. (Reiterated) The method of claim 22 or claim 35 further comprising administering a nematicide selected from the group consisting of: avermectins, ivermectin, and milbemycin.

42. (Reiterated) The method of claim 22 wherein the nematode infects plants and the nematicidal composition is applied to the soil or to plants.

43. (Reiterated) The method of claim 42 wherein the nematicidal composition is applied to soil before planting.

44. (Reiterated) The method according to claim 42 where the nematicidal composition is applied to soil after planting.

45. (Reiterated) The method of claim 42 wherein the nematicidal composition is applied to soil using a drip system.

46. (Reiterated) The method of claim 42 wherein the nematicidal composition is applied to soil using a drench system.

47. (Reiterated) The method of claim 42 wherein the nematicidal composition is applied to plant roots.

Applicant : Deryck Jeremy Williams et al.
Serial No. : 10/090,527
Filed : March 4, 2002
Page : 7

Attorney's Office No.: 12557-009001

48. (Reiterated) The method of claim 22 wherein the nematicidal composition is applied to seeds.

49. (Reiterated) The method of claim 22 wherein the nematode infects a mammal.

50. (Reiterated) The method of claim 22 wherein the nematicidal composition is administered to non-human mammal.

51. (Reiterated) The method of claim 22 wherein the nematicidal composition is administered to a human.

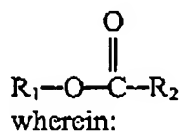
52. (Reiterated) The method of claim 50 wherein the nematicidal composition is formulated as a drench to be administered to a non-human animal.

53. (Reiterated) The method of claim 49 wherein the nematicidal composition is formulated as an orally administered drug.

54. (Reiterated) The method of claim 49 wherein the nematicidal composition is formulated as an injectable drug.

55. (Amended) A nematicidal feed for a non-human mammal comprising:

- (a) a feed;
(b) an effective amount of a nematicidal compound having the formula



R₁ = a C1-C5 substituted or unsubstituted carbon chain, wherein the substituents are selected from the group consisting of: hydroxy, halogen, amino, cyano, cyclopropane, cyclopropene, epoxy, and a substituted or unsubstituted C1-C2 carbon chain, wherein the

Applicant : Deryck Jeremy William et al.
Serial No. : 10/090,527
Filed : March 4, 2002
Page : 8

Attorneyocket No.: 12557-009001

substituents on the C1-C2 carbon chain are selected from the group consisting of hydroxy, halogen, amino, cyano, and epoxy;

and

AG
Conty
 R_2 = a C15-C19 substituted or unsubstituted carbon chain having a *cis* double bond between the 9th and 10th carbons and either: (i) a triple bond between the 12th and 13th carbons or (ii) either a single or double bond between the 12th and 13th carbons and at least one substituent at one or both of the 12th and 13th carbons, wherein the substituents are selected from the group consisting of: hydroxy, halogen, amino, cyano, cyclopropane, cyclopropene, epoxy, and a substituted or unsubstituted C1-C2 carbon chain, wherein the substituents on the C1-C2 carbon chain are selected from the group consisting of hydroxy, halogen, amino, cyano, and epoxy; and

(c) an aqueous surfactant.

56. (Reiterated) The nematocidal feed of claim 55 wherein the feed has been treated to reduce linoleic acid content, linolenic acid content or both.

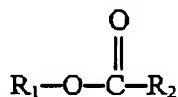
57. (Reiterated) The nematocidal feed of claim 56 wherein both the gamma linolenic acid content and the alpha linolenic acid content have been reduced.

58. (Reiterated) The nematocidal feed of claim 55 wherein the feed is selected from the group consisting of: soy, wheat, corn, sorghum, millet, alfalfa, clover, and rye.

Please add new claims 65-70 as follows.

--65. A nematocidal composition consisting essentially of:

(a) an effective amount of a compound having the formula



wherein:

R_1 = a C1-C5 substituted or unsubstituted carbon chain, wherein the substituents are selected from the group consisting of: hydroxy, halogen, amino, cyano, cyclopropane,

Applicant : Deryck Jeremy William, et al.
 Serial No. : 10/090,527
 Filed : March 4, 2002
 Page : 9

Attorney's Office No.: 12357-009001

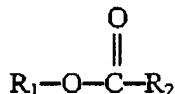
cyclopropene, epoxy, and a C1-C2 substituted or unsubstituted carbon chain, wherein the substituents on the C1-C2 carbon chain are selected from the group consisting of hydroxy, halogen, amino, cyano, and epoxy; and

Amended
 R_2 = a C15-C19 substituted or unsubstituted carbon chain having a *cis* double bond between the 9th and 10th carbons counting from the carbonyl carbon and either: (i) a triple bond between the 12th and 13th carbons counting from the carbonyl carbon or (ii) either a single or double bond between the 12th and 13th carbons counting from the carbonyl carbon and at least one substituent at one or both of the 12th and 13th carbons counting from the carbonyl carbon, wherein the substituents are selected from the group consisting of: hydroxy, halogen, amino, cyano, cyclopropane, cyclopropene, epoxy, and a substituted or unsubstituted C1-C2 carbon chain, wherein the substituents on the C1-C2 carbon chain are selected from the group consisting of hydroxy, halogen, amino, cyano, and epoxy;

- (b) an aqueous surfactant; and
- (c) a permeation enhancer.

66. A nematicidal composition consisting essentially of:

- (a) an effective amount of a compound having the formula



wherein:

R_1 = a C1-C5 substituted or unsubstituted carbon chain, wherein the substituents are selected from the group consisting of: hydroxy, halogen, amino, cyano, cyclopropane, cyclopropene, epoxy, and a C1-C2 substituted or unsubstituted carbon chain, wherein the substituents on the C1-C2 carbon chain are selected from the group consisting of hydroxy, halogen, amino, cyano, and epoxy; and

R_2 = a C15-C19 substituted or unsubstituted carbon chain having a *cis* double bond between the 9th and 10th carbons counting from the carbonyl carbon and either: (i) a triple bond between the 12th and 13th carbons counting from the carbonyl carbon or (ii) either a single or double bond between the 12th and 13th carbons counting from the carbonyl carbon and at least one substituent at one or both of the 12th and 13th carbons counting from the carbonyl carbon,

Applicant : Deryck Jeremy William et al.
Serial No. : 10/090,527
Filed : March 4, 2002
Page : 10

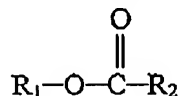
Attorneyocket No.: 12557-009001

wherein the substituents are selected from the group consisting of: hydroxy, halogen, amino, cyano, cyclopropane, cyclopropene, epoxy, and a substituted or unsubstituted C1-C2 carbon chain, wherein the substituents on the C1-C2 carbon chain are selected from the group consisting of hydroxy, halogen, amino, cyano, and epoxy; and

- (b) an aqueous surfactant; and
(c) a co-solvent.

67. A nematocidal composition comprising:

- (a) an effective amount of a compound having the formula



wherein:

R_1 = a C1-C5 substituted or unsubstituted carbon chain, wherein the substituents are selected from the group consisting of: hydroxy, halogen, amino, cyano, cyclopropane, cyclopropene, epoxy, and a C1-C2 substituted or unsubstituted carbon chain, wherein the substituents on the C1-C2 carbon chain are selected from the group consisting of hydroxy, halogen, amino, cyano, and epoxy; and

R_2 = a C15-C19 substituted or unsubstituted carbon chain having a *cis* double bond between the 9th and 10th carbons counting from the carbonyl carbon and either: (i) a triple bond between the 12th and 13th carbons counting from the carbonyl carbon or (ii) either a single or double bond between the 12th and 13th carbons counting from the carbonyl carbon and at least one substituent at one or both of the 12th and 13th carbons counting from the carbonyl carbon, wherein the substituents are selected from the group consisting of: hydroxy, halogen, amino, cyano, cyclopropane, cyclopropene, epoxy, and a substituted or unsubstituted C1-C2 carbon chain, wherein the substituents on the C1-C2 carbon chain are selected from the group consisting of hydroxy, halogen, amino, cyano, and epoxy;

- (b) an aqueous surfactant; and
(c) a nematocide selected from the group consisting of: avermectins, ivermectin, and milbemycin.

Applicant : Deryck Jeremy William et al.
Serial No. : 10/090,527
Filed : March 4, 2002
Page : 11

Attorney Docket No.: 12557-009001

68. The composition of any of claims 65-67 wherein the aqueous surfactant is selected from the group consisting of: ethyl lactate, polyoxyethylene 20 sorbitan monolaureate, polyoxyethylene 9 nonylphenyl ether.

69. The composition of claim 65 wherein the permeation enhancer is a cyclodextrin.

70. The composition of claim 66 wherein the co-solvent is isopropanol.--